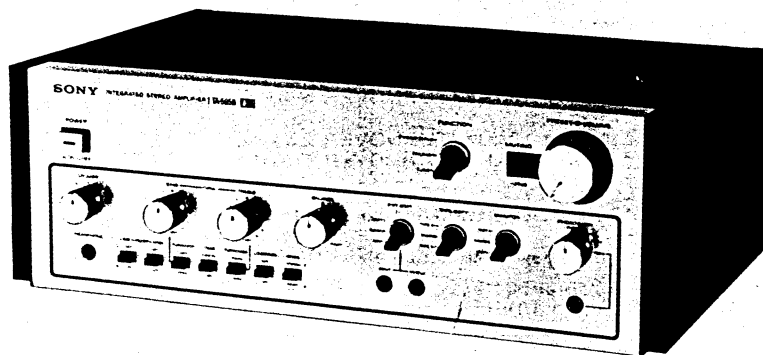


TA-5650

WEGA V4810USA Model
Canada Model
UK Model
AEP Model



Discard TA-5650 service manual previously issued for UK and AEP Models. This service manual contains former information.

INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

GENERAL

Power Requirements: 120 V ac, 60 Hz (USA and Canada Model)
 110, 127, 220 or 240 V ac adjustable, 50/60 Hz (UK and AEP Model)

Power Consumption: 160 W (USA Model)
 320 VA (Canada Model)
 440 W (UK and AEP Model)

Dimensions: Approx. 460(w) x 168(h) x 323(d) mm
 18¹/₈(w) x 6⁵/₈(h) x 12³/₄(d) inches
 Including projecting parts and controls

Weight: Approx. 13.4 kg, 29 lb 9 oz (net)
 Approx. 16 kg, 35 lb 4 oz (in shipping carton)

Harmonic Distortion: Less than 0.1 % at rated output
 Less than 0.08 % at 1 W output

IM Distortion: Less than 0.1 % at rated output
 (60 Hz : 7 kHz = 4 : 1)
 Less than 0.08 % at 1 W output

Frequency Response (at 1 W output): 2 Hz — 100 kHz⁺⁰₋₂ dB

S/N Ratio: Greater than 110 dB, short-circuited input

Residual Noise: Less than 0.02 μ W (8 Ω)

Damping Factor: 50 (8 Ω , at 1 kHz)

Inputs: **POWER INPUT**
 Sensitivity 1 V RMS (for rated output), impedance 50 k Ω

Outputs: **SPEAKER** terminals A, B
 Accept speakers of 4 Ω or more
HEADPHONES jack
 Accepts low and high-impedance stereo headphones

POWER AMPLIFIER SECTION

Continuous RMS Power Output: (less than 0.1 % THD, both channels driven simultaneously)

At 1 kHz
 60 + 60 W (8 Ω)
 50 + 50 W (4 Ω)

At 20 Hz — 20 kHz
 50 + 50 W (8 Ω)
 according to DIN 45500
 55 + 55 W (8 Ω)

Dynamic Power Output: (IHF constant power supply method)
 160 W (8 Ω)
 140 W (4 Ω)

Power Bandwidth (IHF): 5 — 40,000 Hz

0 dB = 0.775 V

— continued on page 2 —

SONY®

SERVICE MANUAL

PREAMPLIFIER SECTION

Harmonic Distortion: Less than 0.05 % at rated output
IM Distortion: Less than 0.05 % at rated output
 (60 Hz : 7 kHz = 4 : 1)
Frequency Response: PHONO 1, 2 RIAA equalization ± 0.5 dB
 TUNER
 AUX 1, 2, 3
 TAPE 1, 2
 REC/PB (input)
 EXT ADPT 1, 2 (input)

$\left. \begin{array}{l} 10 \text{ Hz} - \\ 100 \text{ kHz} +0 \text{ dB} \end{array} \right\} \text{ (TONE: CANCEL)}$

Tone Controls: BASS:
 ± 10 dB at 50 Hz (TURNOVER 250 Hz)
 ± 10 dB at 100 Hz (TURNOVER 500 Hz)
 TREBLE:
 ± 10 dB at 10 kHz (TURNOVER 2.5 kHz)
 ± 10 dB at 20 kHz (TURNOVER 5 kHz)

Filters: LOW:
 12 dB/octave attenuation below 30 Hz
 HIGH:
 12 dB/octave attenuation above 9 kHz

Loudness switch: + 10 dB at 50 Hz
 (att. 30 dB) + 3 dB at 10 kHz

Inputs:

	Sensitivity	Impedance	Maximum input capability*	S/N (weighting network)
PHONO 1, 2	2.5 mV	50 k ohms	300 mV	greater than 70 dB (B)
AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2(input)	150 mV	250 k ohms	—	greater than 90 dB (A)

* The maximum input capability is measured at a 0.05 % harmonic distortion.

Outputs:

	Output voltage	Impedance
REC OUT 1, 2	150 mV	4.7 k ohms
PRE OUTPUT	1 V	1 k ohm
REC/PB	17 mV	82 k ohms
EXT ADPT 1, 2	150 mV	4.7 k ohms

Specification Labels:

USA Model

SONY®	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650
	AC 120V 60Hz 160W
	SERIAL NO. _____
MADE IN JAPAN	

Canada Model

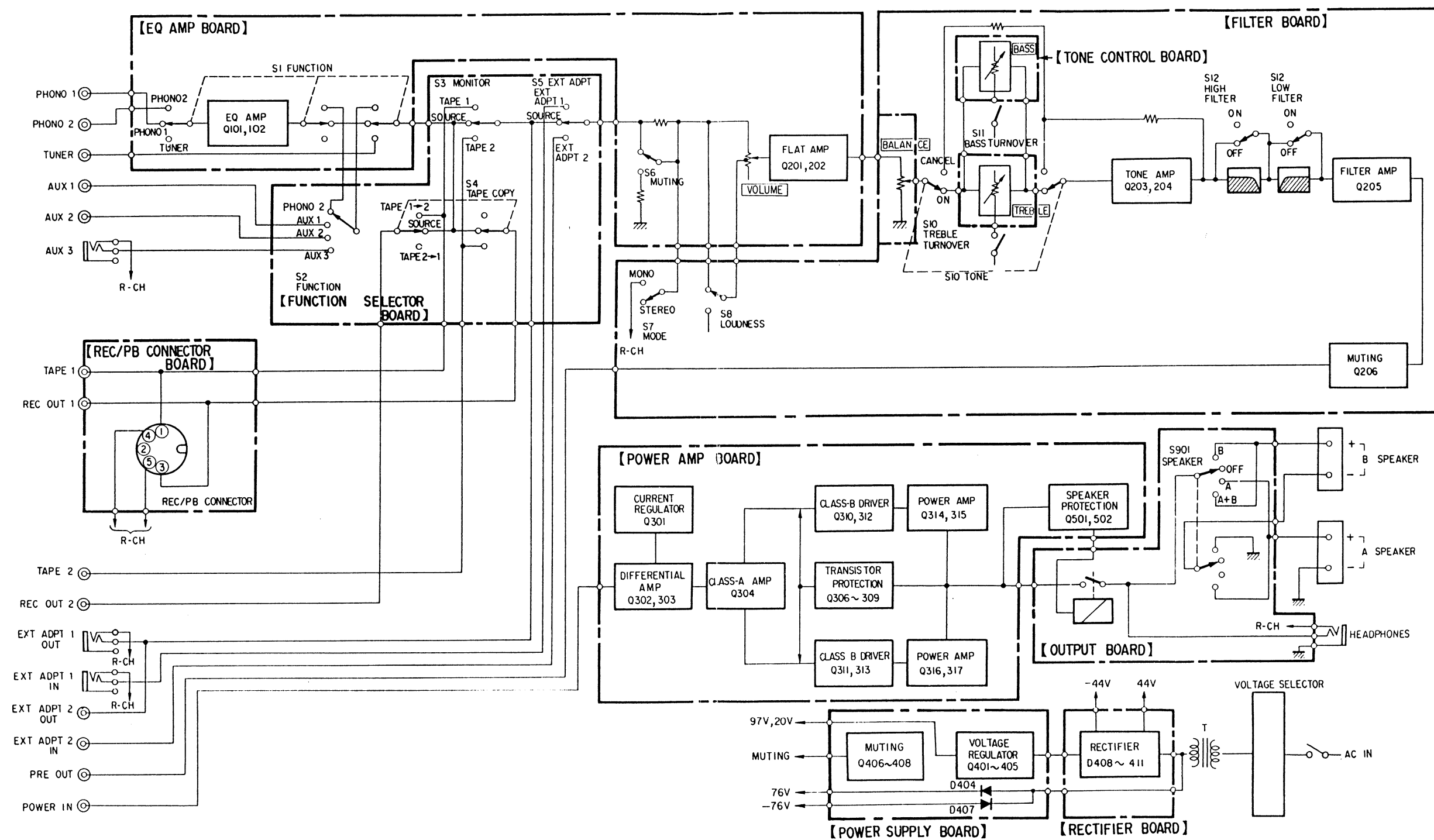
SONY®	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650
	AC 120V 60Hz 320VA
	SERIAL NO. _____
MADE IN JAPAN	

UK and AEP Models

SONY®	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650
	AC 110.127.220.240V~ 50/60Hz 440W
	SERIAL NO. * _____
MADE IN JAPAN	

Note: * UK Model: Serial No. 600,001 and later
 AEP Model: Serial No. 500,001 and later

SECTION 1
BLOCK DIAGRAM



SECTION 2 ADJUSTMENT

Note: Turn the power switch on and allow about five minutes for warm-up the set.

2-1. 20 V POWER VOLTAGE ADJUSTMENT

With no input signal, adjust RT401 so that the emitter voltage of Q403 becomes 20 V.

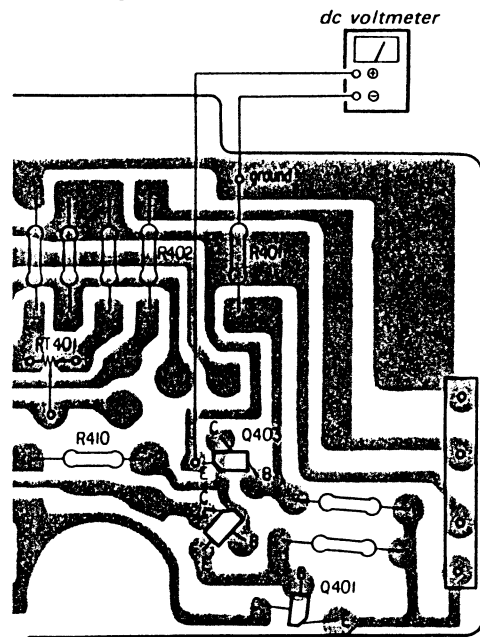


Fig. 2-1. 20 V power voltage adjustment

2-2. 97 V POWER VOLTAGE CONFIRMATION

After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows 97 V \pm 3 V.

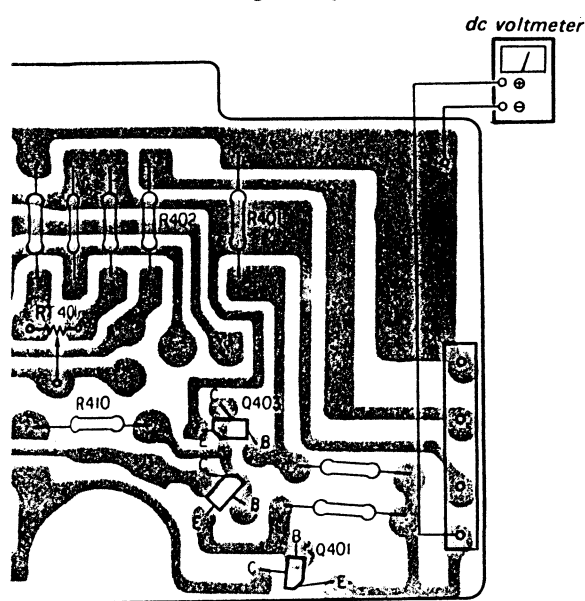


Fig. 2-2. 97 V power voltage confirmation

2-3. CONFIRMATION OF DC BALANCE VOLTAGE

1. Set the SPEAKER switch to "A" position.
2. Connect the dc voltmeter across the SPEAKER OUT "A".
3. Confirm that the dc voltage at SPEAKER OUT "A" shows 0 V \pm 50 mV.

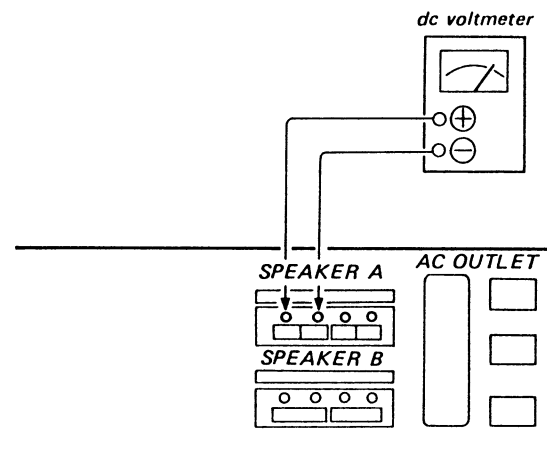


Fig. 2-3. Confirmation of dc balance voltage

2-4. DC BIAS ADJUSTMENT

Adjust RT301 and RT351 for 90 mV reading on the meter with no input signal.

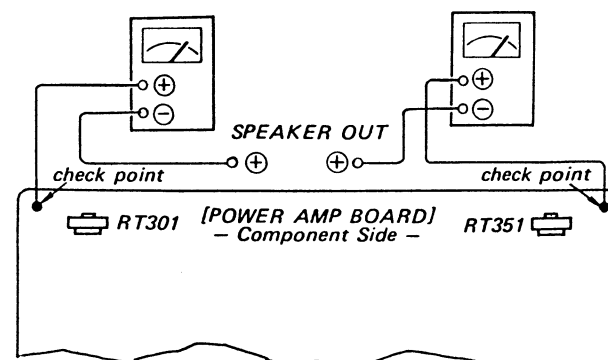


Fig. 2-4. DC bias adjustment

2-5. CHASSIS LAYOUT

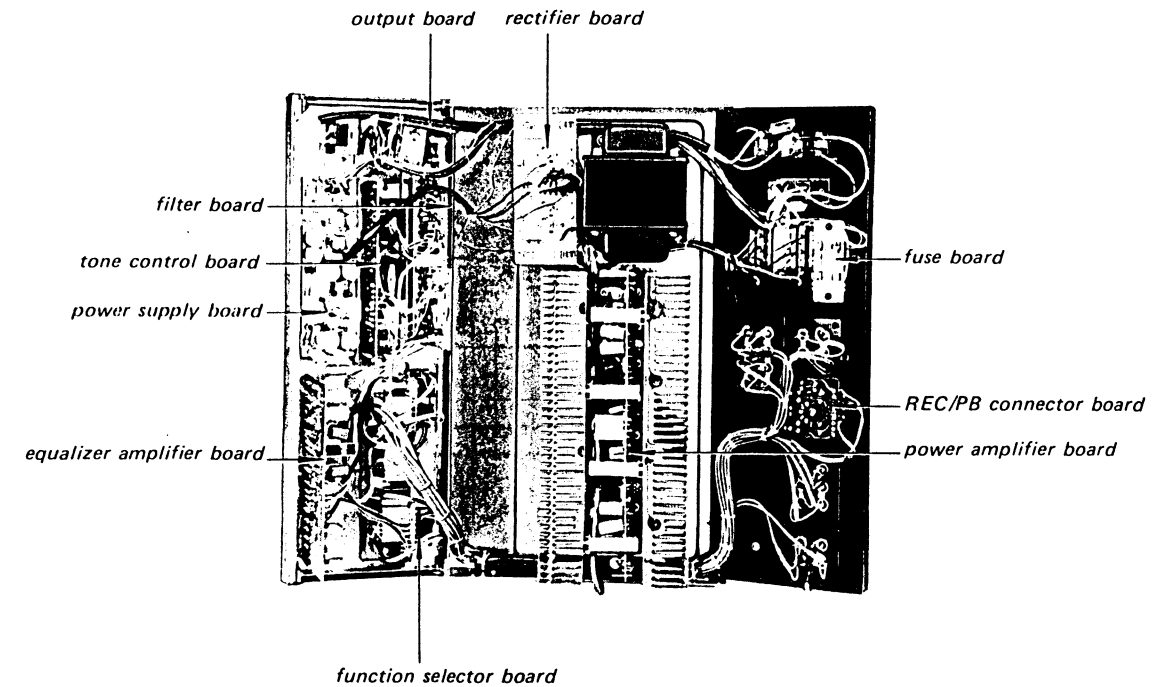
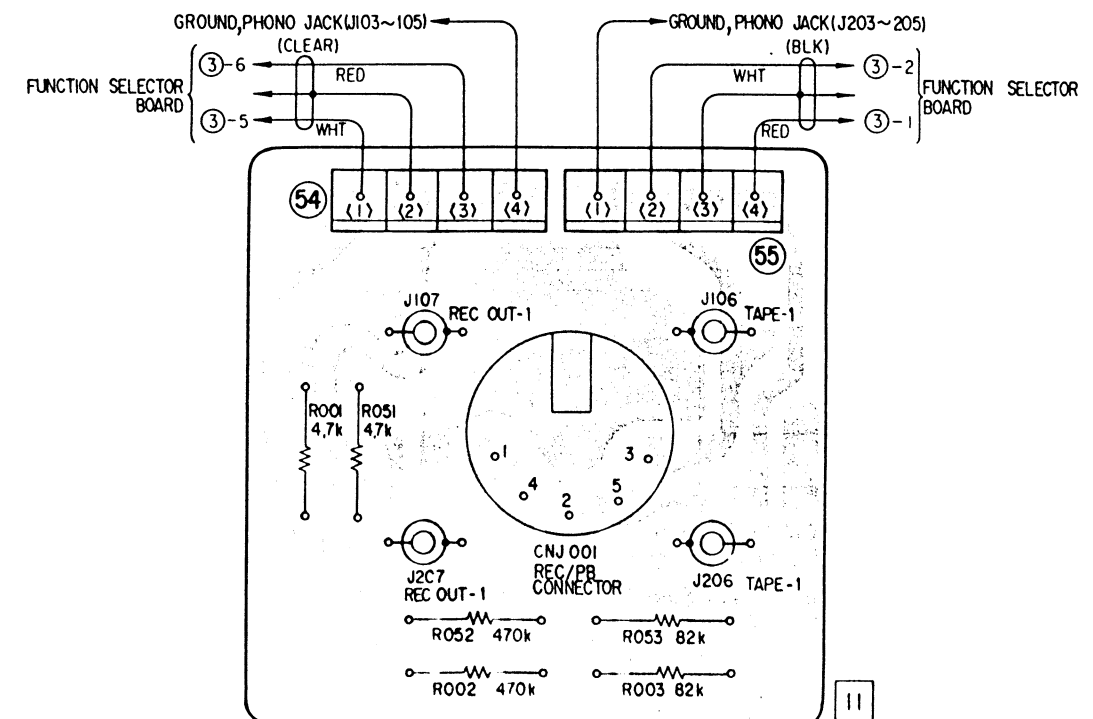


Fig. 2-5. Chassis layout

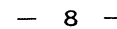
SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

3-1. MOUNTING DIAGRAM - REC/PB CONNECTOR BOARD -

- Conductor Side -

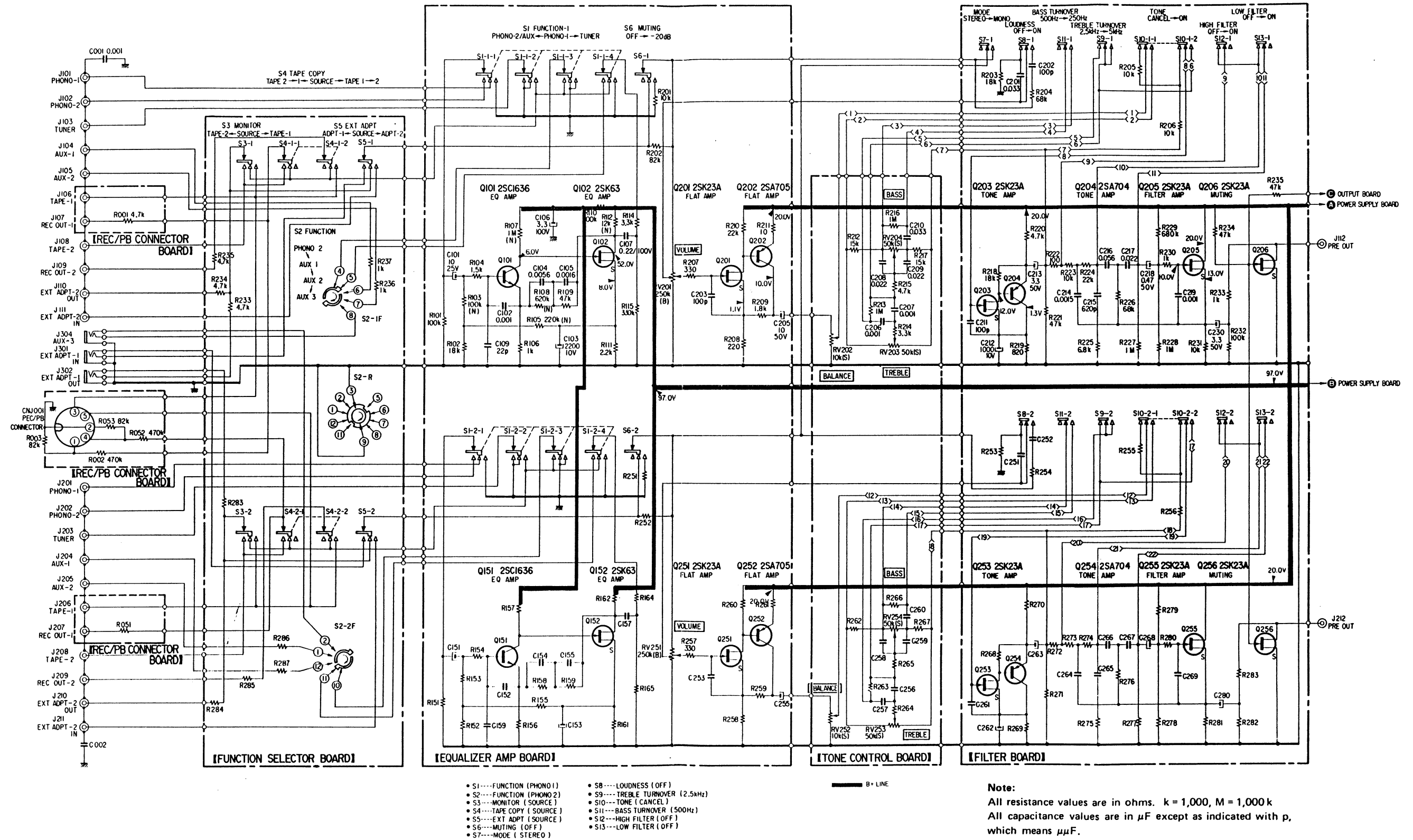


— Conductor Side —



3-6. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

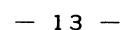
UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900



3-8. MOUNTING DIAGRAM – FILTER BOARD –

– Conductor Side –

USA Model:	Serial No. 800,001 and later
Canada Model:	Serial No. 700,001 and later
UK Model:	Serial No. 600,351 and later
AEP Model:	Serial No. 501,901 and later



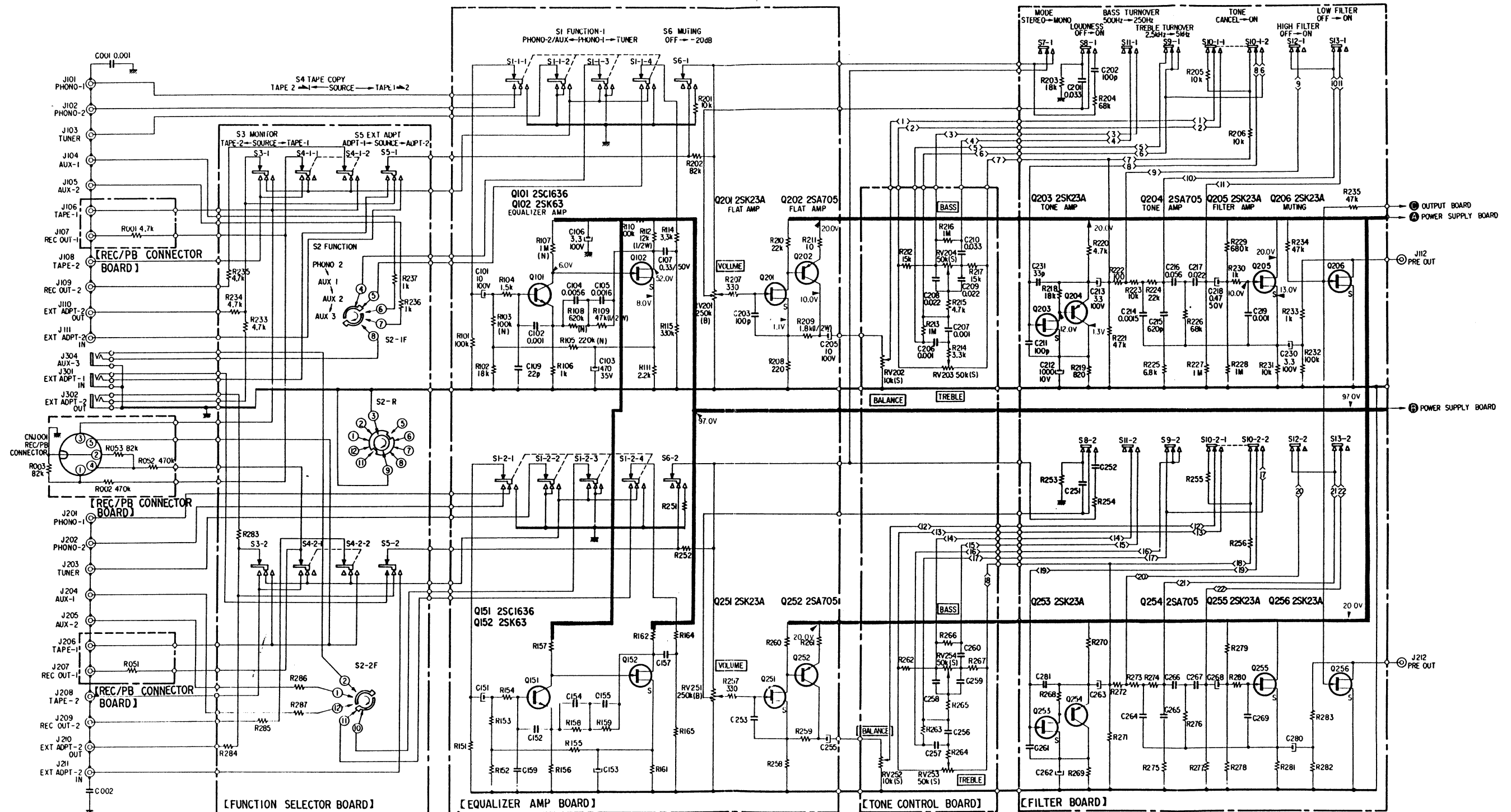
Q203, 205, 206 } 2SK23A
Q253, 255, 256 }

Q204, 254: 2SA704

Q253 Q254 Q203
Q255 Q205 Q204
Q206 Q256

3-9. SCHEMATIC DIAGRAM — PREAMPLIFIER SECTION —

USA Model: Serial No. 800,001 and later
 Canada Model: Serial No. 700,001 and later
 UK Model: Serial No. 600,351 and later
 AEP Model: Serial No. 501,901 and later



- S1—FUNCTION (PHONO1)
- S2—FUNCTION (PHONO2)
- S3—MONITOR (SOURCE)
- S4—TAPE COPY (SOURCE)
- S5—EXT ADPT (SOURCE)
- S6—MUTING (OFF)
- S7—MODE (STEREO)
- S8—LOUDNESS (OFF)
- S9—TREBLE TURNOVER (2.5kHz)
- S10—TONE (CANCEL)
- S11—BASS TURNOVER (500Hz)
- S12—HIGH FILTER (OFF)
- S13—LOW FILTER (OFF)

B+ LINE

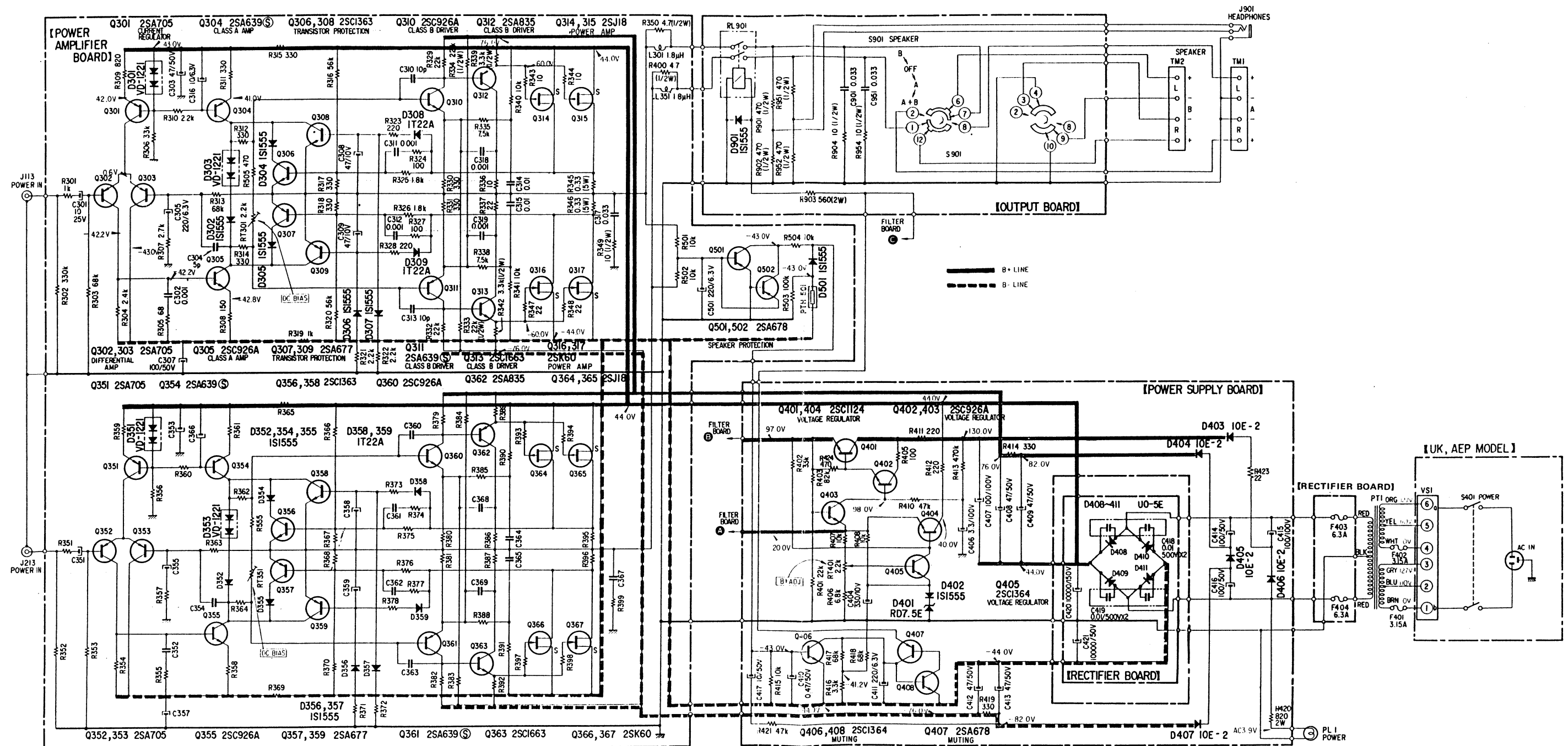
Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k
 All capacitance values are in μF except as indicated with p, which means μF .
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
 Voltage variations may be noted due to normal production tolerances.

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3-10. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900

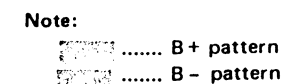


Note:


All resistance values are in ohms. k = 1,000, M = 1,000k
All capacitance values are in μ F except as indicated with p, which means μ pF.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
Voltage variations may be noted due to normal production tolerances.


UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900

— Conductor Side —

[illegible]

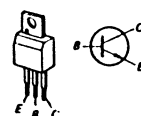
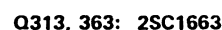
Note:

 B+ pattern

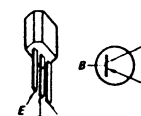
 B- pattern

D308, 309 } 1T22A
D358, 359 }

D302, 352 }
D304 ~ 307 } 1S1555
D354 ~ 357 }
D501 }

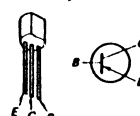


Q301 ~ 303 } 2SA705
Q351 ~ 353 }



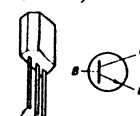
Q307, 309 } 2SA677
Q357, 359 }

Q304, 311 } 2SA639(S)
Q354, 361 }



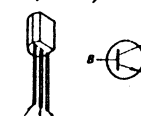
Q304, 311 } 2SA639(S)
Q354, 361 }

Q305, 310 } 2SC926A
Q355 360 }



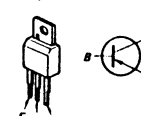
Q305, 310 } 2SC926A
Q355 360 }

Q306, 308 } 2SC1363
Q356 358 }



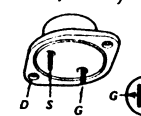
Q306, 308 } 2SC1363
Q356 358 }

Q312 362: 2SA835



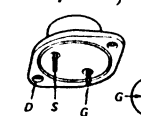
Q312 362: 2SA835

Q314, 315 } 2SJ18
Q364, 365 }



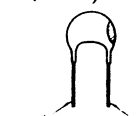
Q314, 315 } 2SJ18
Q364, 365 }

Q316, 317 } 2SK60
Q366 367 }



Q316, 317 } 2SK60
Q366 367 }

D301, 303 } VD-1221
D351 353 }



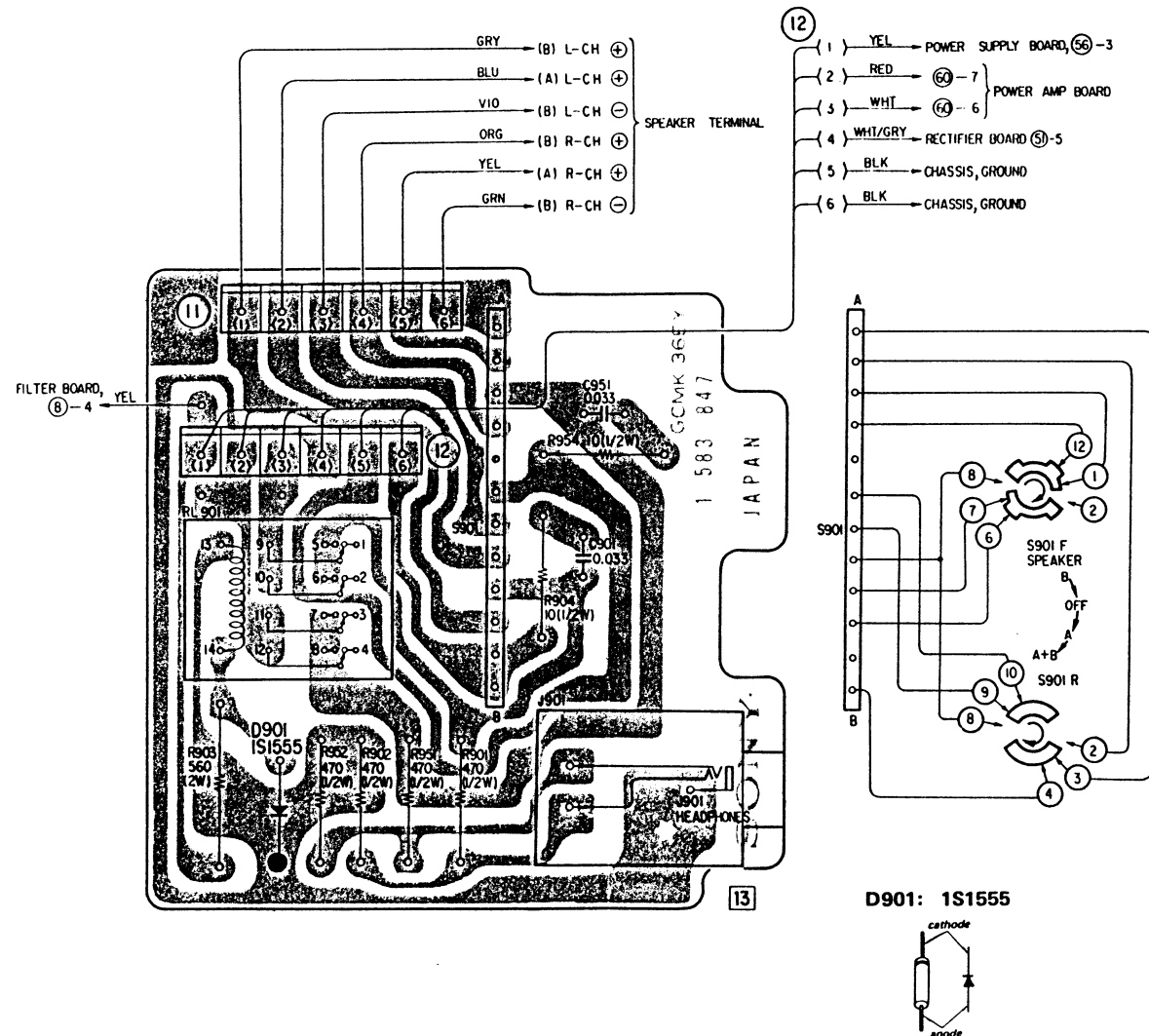
D301, 303 } VD-1221
D351 353 }

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3-12. MOUNTING DIAGRAM – OUTPUT BOARD –

— Conductor Side —

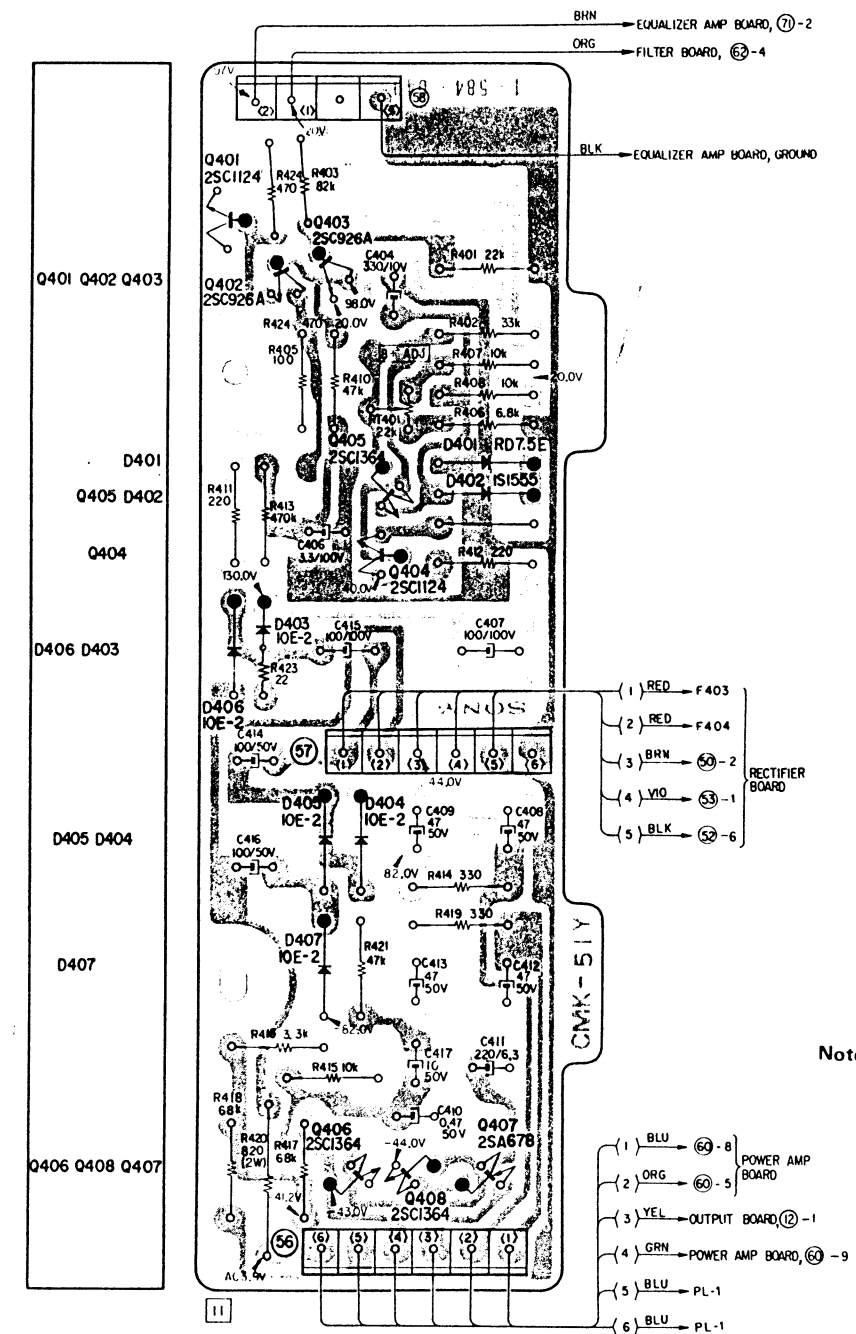
UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900



3-13. MOUNTING DIAGRAM – POWER SUPPLY BOARD –

— Conductor Side —

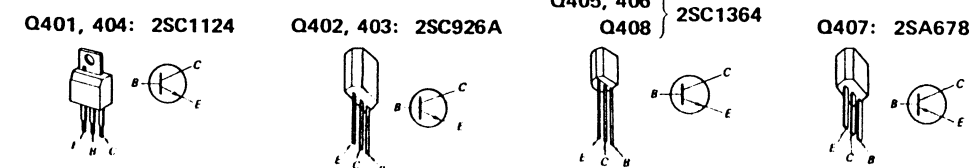
UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900



Note:

..... B + pattern
..... B - pattern

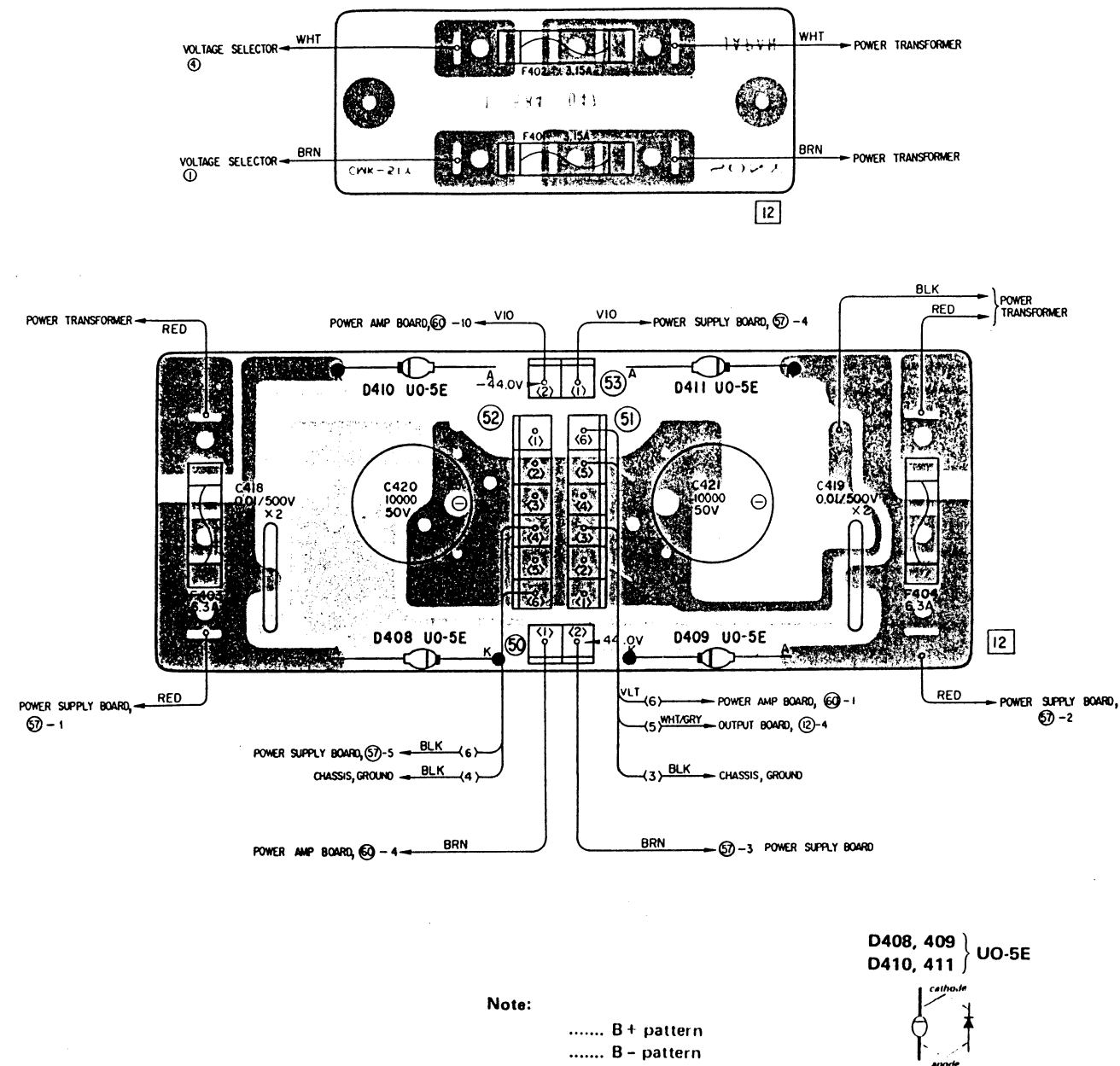
D401: RD-7.5E
D402: 1S1555
D403 ~ 407: 10E-2



3-14. MOUNTING DIAGRAM – RECTIFIER/FUSE BOARDS –

– Component Side –

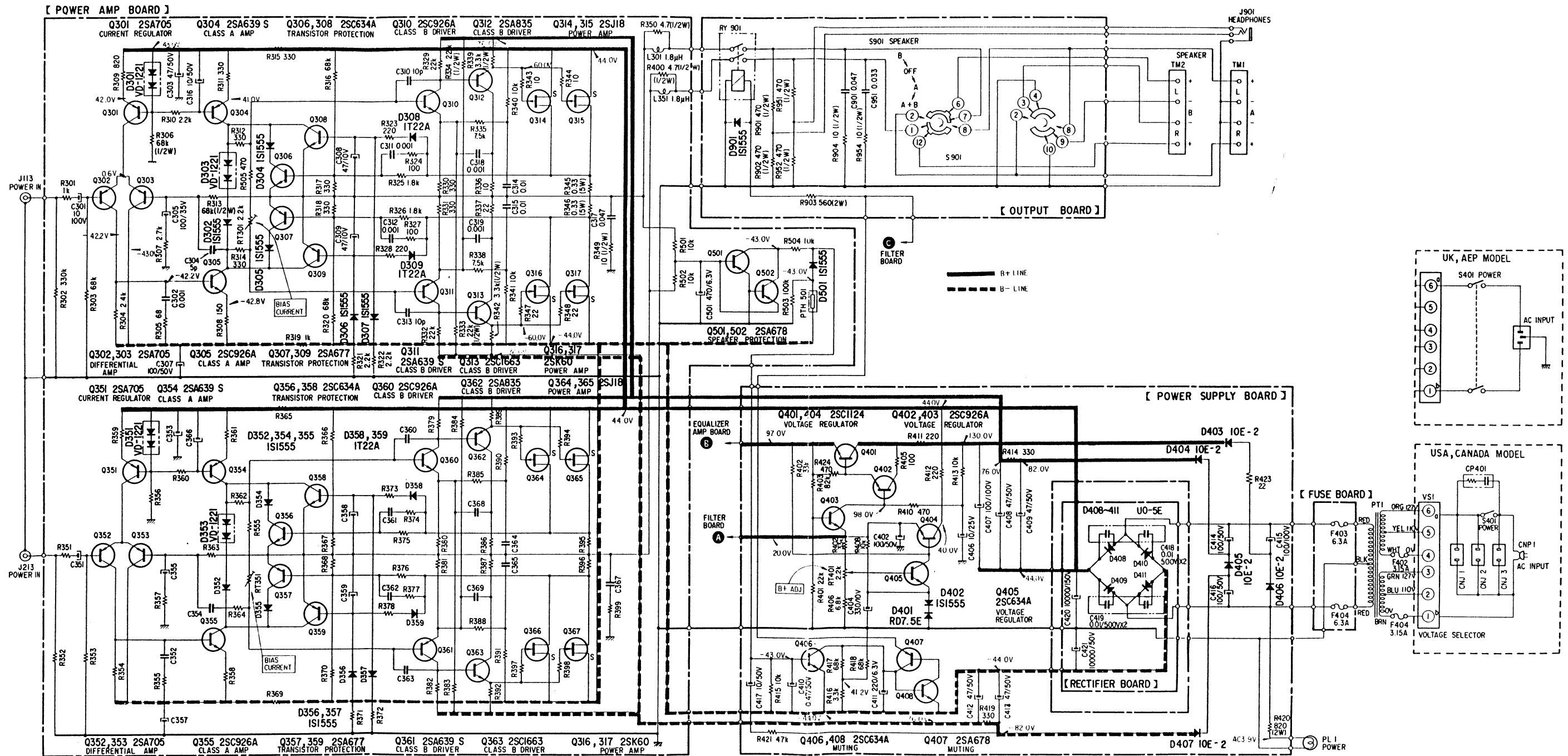
MEMO



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3-15. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

USA Model: Serial No. 800,001 and later
 Canada Model: Serial No. 700,001 and later
 UK Model: Serial No. 600,351 and later
 AEP Model: Serial No. 501,901 and later



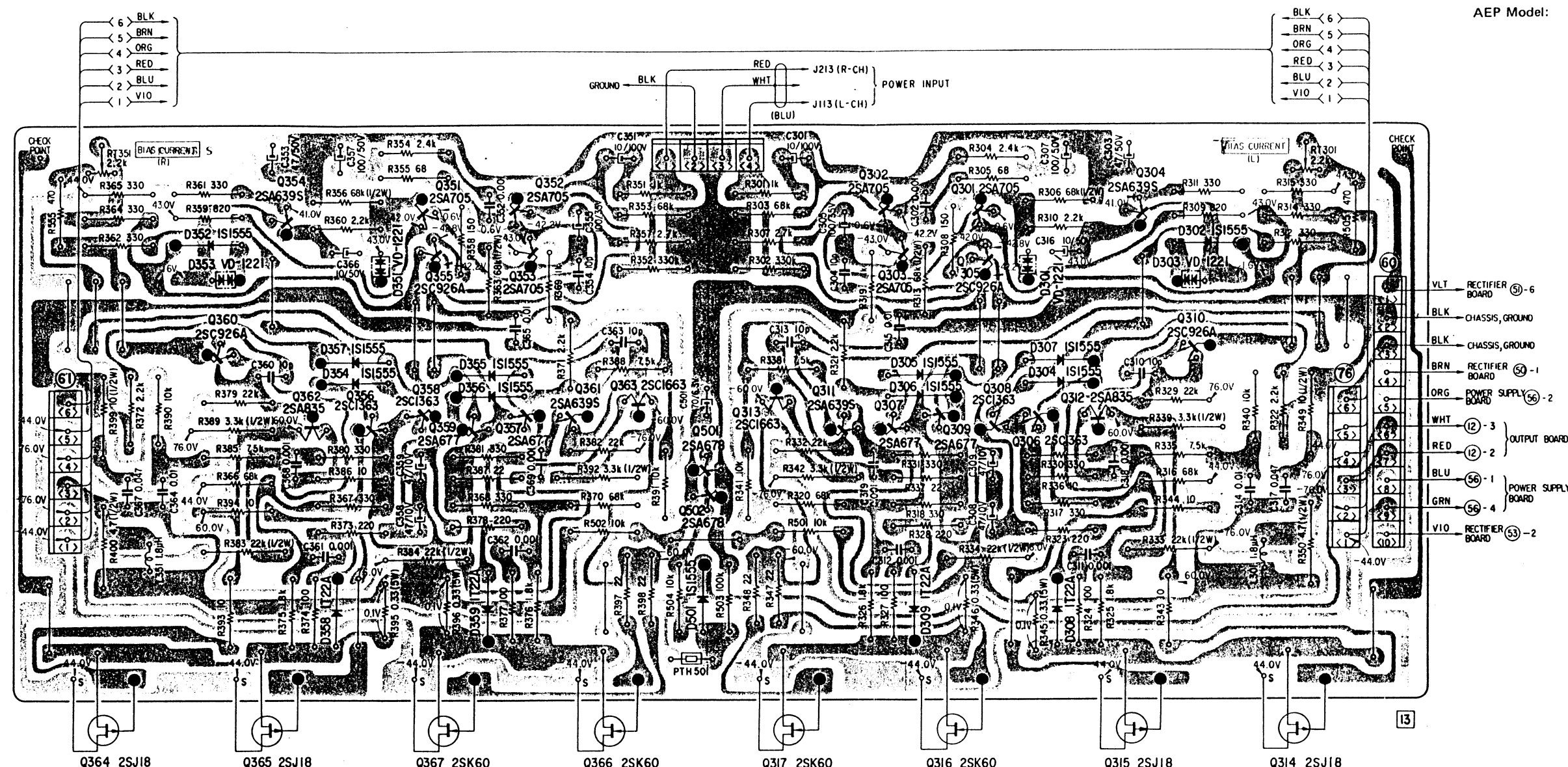
Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k
 All capacitance values are in μF except as indicated with p, which means μF .
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
 Voltage variations may be noted due to normal production tolerances.

3-16. MOUNTING DIAGRAM — POWER AMPLIFIER BOARD —

— Conductor Side —

USA Model: Serial No. 800,001 and later
Canada Model: Serial No. 700,001 and later
UK Model: Serial No. 600,351 and later
AEP Model: Serial No. 501,901 and later



Note:
..... B+ pattern
..... B- pattern

Q301 ~ 303 } 2SA705
Q351 ~ 353 }
Q307, 309 } 2SA677
Q357, 359 }
Q313, 363: 2SC1663
Q501, 502: 2SA678

Q304, 311 } 2SA639
Q354, 361 }
Q305, 310 } 2SC926A
Q355, 360 }

Q306, 308 } 2SC1363
Q356, 358 }

Q312, 362: 2SA835

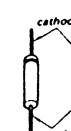
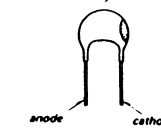
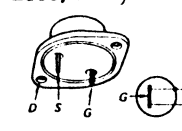
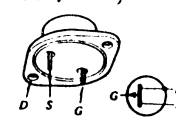
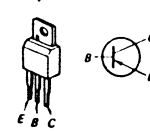
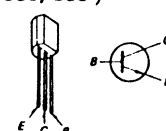
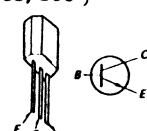
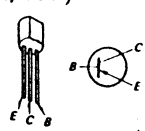
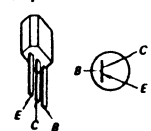
Q314, 315 } 2SJ18
Q364, 365 }

Q316, 317 } 2SK60
Q366, 367 }

D301, 303 } VD-1221
D351, 353 }

D308, 309 } 1T22A
D358, 359 }

D302, 352 } 1S1555
D304 ~ 307 }
D354 ~ 357 }
D501 }

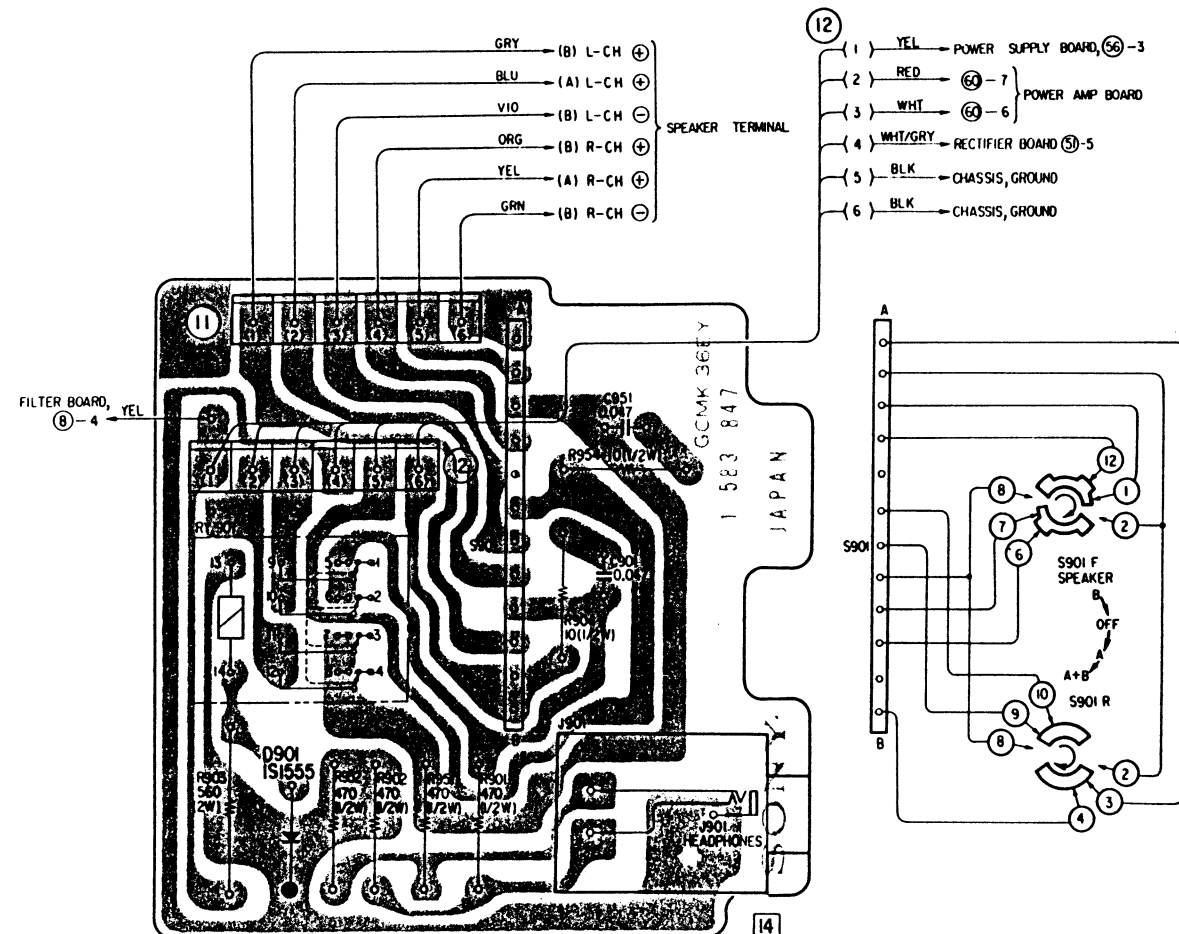


– Conductor Side –

(12)

(1)	YEL	→	POWER SUPPLY BOARD (56) -3
(2)	RED	→	(66) -7
(3)	WHT	→	(66) -6
(4)	WHT/GRY	→	RECTIFIER BOARD (51) -5
(5)	BLK	→	CHASSIS, GROUND
(6)	BLK	→	CHASSIS, GROUND

POWER AMP BOARD



— Conductor Side —

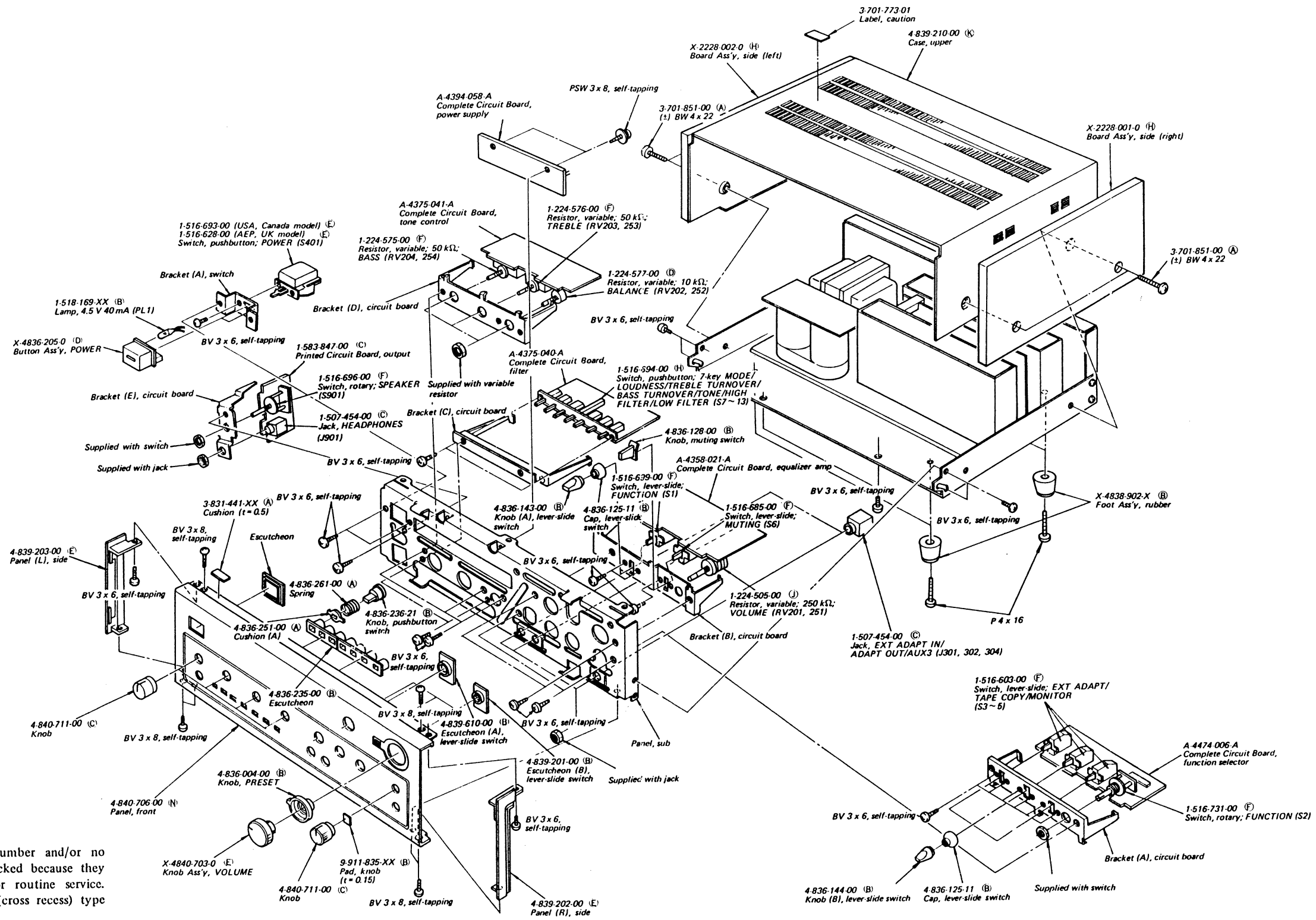
..... B + pattern
..... B - pattern

The diagram illustrates a simple microscope. On the left, a vertical view shows a lens (labeled C) with an object (labeled E) positioned just below its lower surface. An eye (labeled B) is shown at the bottom, looking up at the object. On the right, a circular cross-section of the lens (C) shows the object (E) placed very close to its center. An eye (B) is positioned to the left, looking through the lens at the object.

SECTION 4

EXPLODED VIEWS

(1)

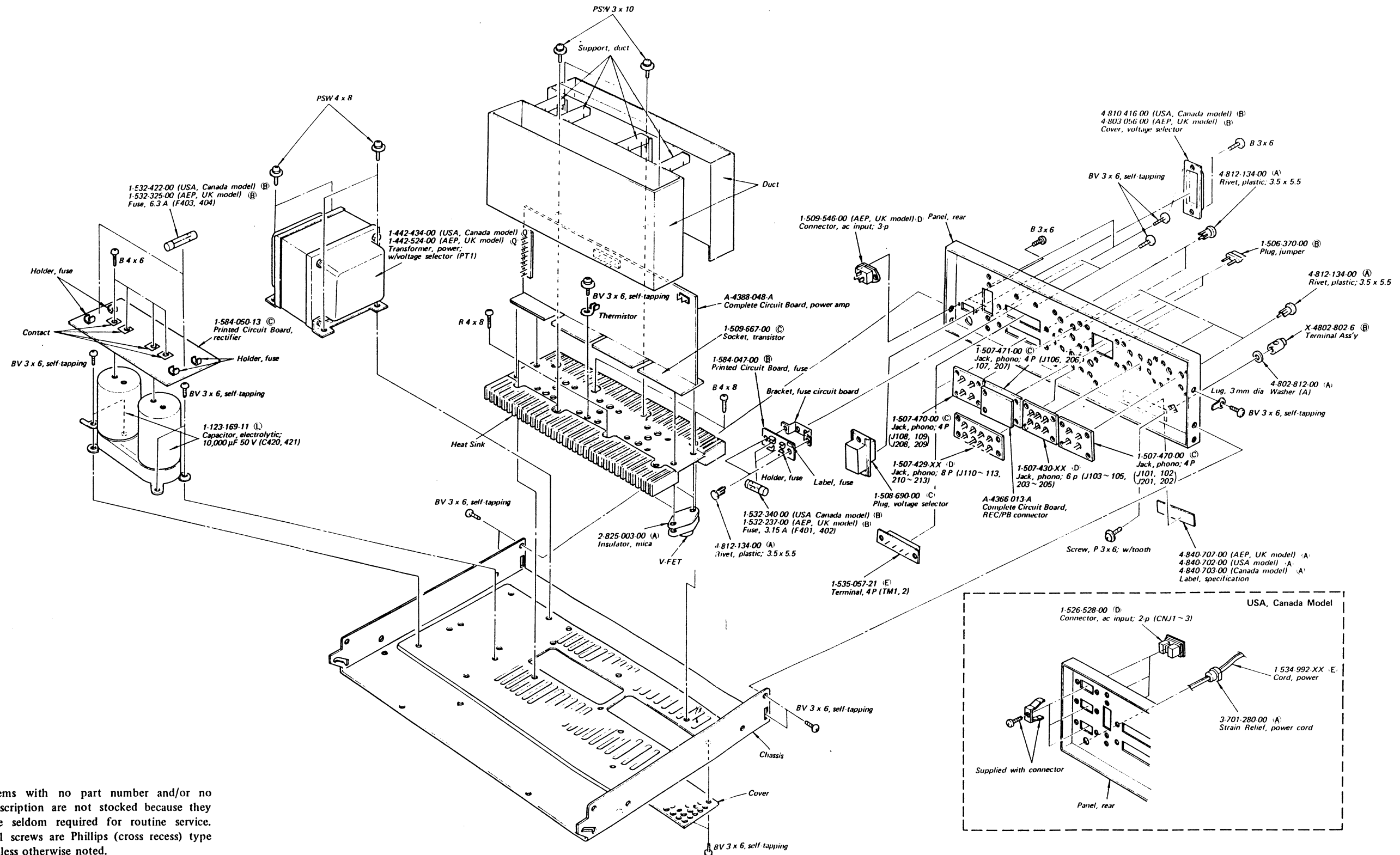


Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- The circled letters (Ⓐ to Ⓩ) are applicable for European model only.

TA-5650 TA-5650

(2)



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head
- The circled letters (A) to (Z) are applicable for European model only.

SECTION 5 ELECTRICAL PARTS LIST

Note: The circled letters (A to Z) are applicable for European model only.

Mark	Applicable Serial No.
□	UK model: Up to Serial No. 600,350 AEP model: Up to Serial No. 501,900
■	USA model: Serial No. 800,001 and later Canada model: Serial No. 700,001 and later UK model: Serial No. 600,351 and later AEP model: Serial No. 501,901 and later

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
COMPLETE CIRCUIT BOARDS			Q314,364, Q315,365	Ⓚ	2SJ18	
A-4358-021-A		Equalizer Amp	Q316,366, Q317,367	Ⓝ	2SK60	
A-4366-013-A		REC/PB Connector				
A-4375-040-A		Filter	Q401	Ⓒ	2SC1124	
A-4375-041A		TONE Control	Q402,403	Ⓓ	2SC926A	
A-4388-048-A		Power Amp	Q404	Ⓒ	2SC1124	
A-4394-058-A		Power Supply	Q405,406	Ⓑ	2SC1364	
A-4474-006-A		Function Selector	Q407	Ⓒ	2SA678	
			Q408	Ⓑ	2SC1364	
PRINTED CIRCUIT BOARDS			Q501,502	Ⓒ	2SA678	
1-583-847-00	Ⓒ	Output	Diodes			
1-584-047-00	Ⓑ	Fuse	D301,351	Ⓑ	VD1221	
1-584-050-13	Ⓒ	Rectifier	D302,352	Ⓑ	1S1555	
SEMICONDUCTORS			D303,353	Ⓑ	VD1221	
Transistors			D304~307, D354~357	Ⓒ	1S1555	
Q101,151	Ⓑ	2SC1636	D308,358, D309,359	Ⓑ	1T22A	
Q102,152	Ⓔ	2SK63				
Q201,251	Ⓒ	2SK23A	D401	Ⓑ	RD7.5E	
Q202,252	Ⓒ	2SA705	D402	Ⓑ	1S1555	
Q203,253	Ⓒ	2SK23A	D403~407	Ⓑ	10E-2	
Q204,254	Ⓒ	2SA705	D408~411	Ⓒ	U05E	
Q205,255, Q206,256	Ⓒ	2SK23A	D501,901	Ⓑ	1S1555	
Q301~303, Q351~353	Ⓒ	2SA705	PTH501	1-800-340-21	Ⓑ	Thermistor (positive)
Q304,354	Ⓒ	2SA639S	COIL			
Q305,355	Ⓓ	2SC926A	L301,351	1-407-592-00	Ⓐ	Microinductor 1.8μ
Q306,356	Ⓑ	2SC1364	TRANSFORMER			
Q307,357	Ⓒ	2SA677	PT1	1-442-434-00	Ⓚ	Power (USA, Canada
Q308,358	Ⓑ	2SC1364	PT1	1-442-524-00	Ⓚ	Power (AEP, UK m
Q309,359	Ⓒ	2SA677				
Q310,360	Ⓓ	2SC926A				
Q311,361	Ⓒ	2SA639S				
Q312,362	Ⓔ	2SA835				
Q313,363	Ⓓ	2SC1663				

Note: The circled letters (A to Z) are applicable for European model only.

Ref. No.	Part No.	Description
CAPACITORS		
All capacitors are in μF and electrolytic type unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. ($p = \mu\text{F}$)		
C001,002	1-102-074-11	(A) 0.001 ceramic
C101,151	□ 1-121-748-11	(A) 10 25 V
	■ 1-121-126-11	(A) 10 100 V
C102,152	1-108-227-12	(A) 0.001 mylar
C103,153	□ 1-121-659-11	(B) 2200 10 V
	■ 1-121-361-11	(B) 470 35 V
C104,154	1-103-743-11	(B) 0.0056 polystyrol
C105,155	1-103-730-11	(A) 0.0016 polystyrol
C106	1-121-995-11	(B) 3.3 100 V
C107,157	□ 1-105-729-12	(A) 0.22 100 V mylar
	■ 1-108-822-12	(A) 0.33 50 V mylar
C109,159	1-102-967-11	(A) 22 p ceramic
C201,251	1-108-591-12	(A) 0.033 mylar
C202,252 C203,253	1-102-973-11	(A) 100 p ceramic
C205,255	□ 1-123-051-11	(A) 10 50 V
	■ 1-121-126-11	(A) 10 100 V
C206,256 C207,257	1-108-555-12	(A) 0.001 mylar
C208,258 C209,259	1-108-587-12	(A) 0.022 mylar
C210,260	1-108-591-12	(A) 0.033 mylar
C211,261	1-102-973-11	(A) 100 p ceramic
C212,262	1-121-736-11	(B) 1000 10 V
C213,263	□ 1-121-914-11	(B) 3.3 50 V
	■ 1-121-995-11	(B) 3.3 100 V
C214,264	1-108-559-12	(A) 0.0015 mylar
C215,265	1-103-720-11	(A) 620 p polystyrol
C216,266	1-108-597-12	(A) 0.056 mylar
C217,267	1-108-587-12	(A) 0.022 mylar
C218,268	1-121-911-11	(A) 0.47 50 V
C219,269	1-108-227-12	(A) 0.001 mylar
C230,280	□ 1-121-914-11	(B) 3.3 50 V
	■ 1-121-995-11	(B) 3.3 100 V
C231,281	1-102-963-11	(A) 33 p ceramic

Ref. No.	Part No.	Description
C301,351	□ 1-121-748-11	(A) 10 25 V
	■ 1-121-126-11	(A) 10 100 V
C302,352	1-108-227-12	(A) 0.001 mylar
C303,353	1-123-058-11	(A) 47 50 V
C304,354	1-102-807-11	(A) 5 p ceramic
C305,355	□ 1-121-419-11	(B) 220 6.3 V
	■ 1-121-357-11	(B) 100 35 V
C307,357	1-123-059-11	(B) 100 50 V
C308,358 C309,359	1-121-927-11	(B) 47 10 V
C310,360	1-102-947-11	(A) 10 p ceramic
C311,361 C312,362	1-108-227-12	(A) 0.001 mylar
C313,363	1-102-947-11	(A) 10 p ceramic
C314,364 C315,365	1-108-239-12	(A) 0.01 mylar
C316,366	□ 1-121-469-11	(A) 10 6.3 V
	■ 1-121-738-11	(A) 10 50 V
C317,367	□ 1-108-244-12	(A) 0.033 mylar
	■ 1-108-868-12	(A) 0.047 mylar
C318,368 C319,369	1-108-227-12	(A) 0.001 mylar
C402	■ 1-121-417-11	(B) 100 50 V
C404	1-121-805-11	(B) 330 10 V
C406	□ 1-121-995-11	(A) 3.3 100 V
	■ 1-121-398-11	(A) 10 25 V
C407	1-123-084-11	(C) 100 100 V
C408,409	1-123-058-11	(B) 47 50 V
C410	1-121-726-11	(A) 0.47 50 V
C411	1-121-419-11	(A) 220 6.3 V
C412,413	1-123-058-11	(B) 47 50 V
C414	1-123-059-11	(B) 100 50 V
C415	1-123-084-11	(C) 100 100 V
C416	1-123-059-11	(B) 100 50 V
C417	1-121-738-11	(A) 10 50 V
C418,419	1-102-355-11	(A) 0.01 500 V ceramic
C420,421	1-123-169-11	(L) 10000 50 V
C501	□ 1-121-419-11	(B) 220 6.3 V
	■ 1-123-077-11	(B) 470 6.3 V
C901,951	□ 1-108-244-12	(A) 0.033 mylar
	■ 1-108-868-12	(A) 0.047 mylar

Note: The circled letters (A to Z) are applicable for European model only.

Ref. No.	Part No.	Description
RESISTORS		
All resistors are in ohms. Regular type $\pm 5\%$, $\frac{1}{4}W$ carbon and composition resistors are omitted. Check the schematic diagram for the resistance values. (k = 1000, M = 1000 k)		
R109,159	1-244-913-11	A 47 k $\frac{1}{2}W$ carbon
R112,162	1-244-899-11	A 12 k $\frac{1}{2}W$ carbon
R209,259	1-244-879-11	A 1.8 k $\frac{1}{2}W$ carbon
R306,356	1-244-917-11	A 68 k $\frac{1}{2}W$ carbon
R313,363	1-244-917-11	A 68 k $\frac{1}{2}W$ carbon
R333,383 R334,384	1-244-905-11	A 22 k $\frac{1}{2}W$ carbon
R339,389 R342,392	1-211-650-11	A 3.3 k $\frac{1}{2}W$ carbon
R345,395 R346,396	1-217-157-11	A 0.33 5W wire-wound
R349,399	1-211-590-11	A 10 $\frac{1}{2}W$ carbon
R350,450	1-244-817-11	A 4.7 $\frac{1}{2}W$ carbon
R420	1-206-662-11	A 820 2W metal oxide
R901,951 R902,952	1-244-865-11	A 470 $\frac{1}{2}W$ carbon
R903	1-206-658-11	A 560 2W metal oxide
R904,905	1-211-590-11	A 10 $\frac{1}{2}W$ carbon
RT301,351	1-224-489-00	B 2.2 k adjustable
RT401	1-224-250-XX	C 2.2 k adjustable
RV201,251	1-224-505-00	D 250 k variable; VOLUME
RV202,252	1-224-577-00	D 10 k variable; BALANCE
RV203,253	1-224-576-00	F 50 k variable; TREBLE
RV204,254	1-224-575-00	F 50 k variable; BASS

SWITCHES

S1	1-516-699-00	F Lever-slide, FUNCTION
S2	1-516-731-00	F Rotary, FUNCTION
S3~5	1-516-603-00	F Lever-slide, EXT ADAPT, TAPE COPY, MONITOR
S6	1-516-685-00	F Lever-slide, MUTING

Ref. No.	Part No.	Description
S7~13	1-516-694-00	H Push, 7-key; MODE, LOUDNESS, TREBLE TURNOVER, BASS TURNOVER, TONE, HIGH FILTER, LOW FILTER
S401	1-516-628-00 1-516-693-00	E Pushbutton, POWER (AEP, UK model) E Pushbutton, POWER (USA, Canada model)
S901	1-516-696-00	F Rotary, SPEAKER

JACKS

CNJ001	1-509-549-00	B Connector, REC/PB
CNJ1~3	1-526-528-00	D Connector, ac; 2-p (USA, Canada model)
	1-509-546-00	D Connector, ac; 3-p (AEP, UK model)
J101,201 J102,202	1-507-470-00	C Phono, 4-p; PHONO 1, 2
J103~105 J203~205	1-507-430-XX	D Phono, 6-p; TUNER, AUX 1, 2
J106,206 J107,207	1-507-471-00	C Phono, 4-p; TAPE 1, REC OUT 1
J108,208 J109,209	1-507-470-00	C Phono, 4-p; TAPE 2, REC OUT 2
J110~113 J210~213	1-507-429-XX	D Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN
J301,302 J304	1-507-454-00	C EXT ADAPT IN, ADAPT OUT, AUX 3
J901	1-507-454-00	C HEADPHONES

MISCELLANEOUS

CP401	1-231-057-31	B Encapsulated Component (USA, Canada model)
F401,402	1-532-340-00 1-532-237-00	B Fuse, 3.15 A (USA, Canada model) B Fuse, 3.15 A (AEP, UK model)
F403,404	1-532-325-00 1-532-422-00	B Fuse, 6.3 A (AEP, UK model) B Fuse, 6.3 A (USA, Canada model)
PL1	1-518-169-XX	B Lamp, 4.5V 40 mA
RY901	1-515-257-00	H Relay

Note: The circled letters (A) to (Z) are applicable for European model only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TM1,2	1-535-057-21	(E) Terminal, 4-p
	1-506-370-00	(B) Plug, jumper
	1-508-690-00	(C) Plug, voltage selector
	1-509-667-00	(C) Socket, transistor
	1-534-992-XX	(E) Cord, power (USA, Canada model)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
ACCESSORIES		
1-506-113-00	(A)	Plug, short
1-534-819-11	(E)	Cord, power (UK model)
1-534-754-12	(E)	Cord, power (E model)
3-780-566-11	(F)	Manual, instruction (Canada, UK and AEP model)
3-780-566-21	(E)	Manual, instruction (USA model)
3-793-520-82	(A)	Card, guaranty (UK model)

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